

## **ABSTRACT OF THE DISCLOSURE**

A Reed-Solomon (RS) decoder for a digital communication and/or storing system, and a decoding method therefor. The RS decoder includes a storing part, a calculation part for calculating an error location and an error value from  $(2m)$  bit data from the storing part, and a control part for correcting an error of the data according to the error location and the error value, and controlling the calculation part to output a decoded signal. As a result, the RS codes of various length can be decoded and processed at a high speed.

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